## **SIEMENS**

## Data sheet

## 3VA2010-5KQ46-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU860, LSIG, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 100%) GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8MS CABLE CONNECTION

Model		
product brand name		SENTRON
Product designation		Molded case circuit breaker
Design of the product		Line protection
Product variations		Selective Applications
Ground fault monitoring version		Summation current formation L + N conductor
Design of the auxiliary release		without auxiliaryrelease
Design of the auxiliary switch		Without
Design of the operating mechanism		toggle handle
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU860
General technical data		
Number of poles		4
Trip class / of the L-trip / with I2t characteristic / initial		0.5
value		
Trip class / of the L-trip / with I2t characteristic / Full-		25
Electrical endurance (switching cycles)		40.000
• at AC-1 / at 380/415 V / at 50/60 Hz		12 000
Total disconnection time / for G-tripping / with standard characteristic / initial value	S	0.05
Total disconnection time / for G-tripping / with		0.8
standard characteristic / Full-scale value	S	0.0
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		20 000
moonanioa service nie (smichning cycles) / typical		20 000

Insulation voltage / Rated value     V     800       Protection class     Protection class IP / on the font     IP40       Switching capacity     IP40       Switching capacity     IP40       Switching capacity     IP40       Instantaneous short-circuit release / initial value     A       Main Circuit     IP40       Operating current     IP40       • at 60 °C / Rated value     A       • at 70 °C / Rated value     A       • at 60 °C / Rated value	Voltage		
Protection class IP       IP40         Protection class IP / on the front       IP40         Protective function of the overcurrent release       LSIG         Switching capacity       M         Dissipation       Active power loss         • maximum       W         Continuous current / Rated value / maximum       A         Continuous current / Rated value / maximum       A         Continuous current / Rated value       A         Continuous current / Rated value       A         Continuous short-circuit release / initial value       Initial value         Main circuit       Operating voltage         Operating voltage       •         • with AC / at 50/60 Hz / Rated value       V         690       Operating voltage         • with AC / at 50/60 Hz / Rated value       V         • at 60 °C / Rated value       A         • at 60 °C / Rated value       A         • at 60 °C / Rated value       A         • at 70 °C / Rated value       A		V	800
Protection class IP       IP40         Protection class IP / on the front       IP40         Protective function of the overcurrent release       LSIG         Switching capacity       M         Dissipation       Active power loss         • maximum       W         Continuous current / Rated value / maximum       A         Continuous current / Rated value / maximum       A         Continuous current / Rated value       A         Continuous current / Rated value       A         Continuous short-circuit release / initial value       Initial value         Main circuit       Operating voltage         Operating voltage       •         • with AC / at 50/60 Hz / Rated value       V         690       Operating voltage         • with AC / at 50/60 Hz / Rated value       V         • at 60 °C / Rated value       A         • at 60 °C / Rated value       A         • at 60 °C / Rated value       A         • at 70 °C / Rated value       A	Protoction class		
Protection class IP / on the front       IIP40         Protective function of the overcurrent release       LSIG         Switching capacity       Switching capacity class of the circuit breaker       M         Opsignation       Active power loss       M         • maximum       W       13.5         Electricity       Continuous current / Rated value / maximum       A       100         Continuous current / Rated value / maximum       A       100         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       100         Operating outage       • with AC / at 50/60 Hz / Rated value       V       690         Operating outage       • with AC / at 50/60 Hz / Rated value       V       690         Operating outage       • with AC / at 50/60 Hz / Rated value       A       100         • at 60 °C / Rated value       A       100       • at 60 °C / Rated value         • at 60 °C / Rated value       A       100       • at 60 °C / Rated value       A         • at 60 °C / Rated value       A       100       • at 60 °C / Rated value       A         • at 60 °C / Rated value       A       100       • at 60 °C / Rated value       A         • at 60 °C / Rated value       B       0       Number of N			IP40
Protective function of the overcurrent release       LSIG         Switching capacity       M         Dissipation       M         Active power loss       M         • maximum       W         13.5         Electricity         Continuous current / Rated value / maximum       A         Adjustable response value current / of the instantaneous short-circuit release / initial value       A         Main circuit       Operating voltage         • with AC / at 50/60 Hz / Rated value       V         Øperating voltage       690         Operating voltage       00         • at 40 °C / Rated value       A         • at 50 °C / Rated value       A         • at 65 °C / Rated value       A         • at 65 °C / Rated value       A         • at 70 °C / Rated value       A         • at 70 °C / Rated value       0         • at 70 °C / Rated value       0         Suitability       System protection         Adjustable parameters       A         Adjustable parameters       A </td <td></td> <td>-</td> <td></td>		-	
Switching capacity class of the circuit breaker     M       Dissipation       Active power loss     W       Imaximum     W       13.5       Electricity       Continuous current / Rated value / maximum     A     100       Continuous current / Rated value     A     100       Adjustable response value current / of the instantaneous short-circuit release / initial value     A     1.5       Main circuit     Operating voltage     V     690       Operating voltage     W     100       • at 40 °C / Rated value     A     100       • at 40 °C / Rated value     A     100       • at 50 °C / Rated value     A     100       • at 60 °C / Rated value     A     100       • at 60 °C / Rated value     A     100       • at 60 °C / Rated value     A     100       • at 60 °C / Rated value     A     100       • at 60 °C / Rated value     A     100       • at 70 °C / Rated value     A     100       • at 60 °C / Rated value     A     100       • at 60 °C / Rated value     A     100       • at 60 °C / Rated value     A     100       • Suitability     Suitability     Suitability       Suitability     Suitability it 12t characteristic / Initia			
Switching capacity class of the circuit breaker     M       Dissipation       Active power loss     W       Imaximum     W       13.5       Electricity       Continuous current / Rated value / maximum     A       100       Continuous current / Rated value     A       100       Continuous current / Rated value     A       100       Continuous current / Rated value     A       101       Continuous current / Rated value     A       102       Main circuit       Operating voltage       • with AC / at 50/60 Hz / Rated value     V       690       Operating urg urgent       • at 40 °C / Rated value     A       100     at 50 °C / Rated value       • at 60 °C / Rated value     A       100     at 65 °C / Rated value       • at 60 °C / Rated value     A       0       Outling or Curl       Number of NO contacts / for auxillary contacts       0       Number of NO contacts / for auxillary contacts       0       Suitability       Suitability       Suitability       Suitability       Value       • for G-tripping / with 12t characteristic / initial value       • for G-			
Dissipation         Active power loss       waximum       W       13.5         Electricity         Continuous current / Rated value / maximum       A       100         Continuous current / Rated value       A       100         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       100         Main circuit       Operating voltage       v       690         Operating voltage       vith AC / at 50/60 Hz / Rated value       V       690         Operating current            • at 40 °C / Rated value       A       100           • at 60 °C / Rated value       A       100            • at 60 °C / Rated value       A       100             • at 60 °C / Rated value       A       100 </td <td></td> <td>_</td> <td>M</td>		_	M
Active power loss     W     13.5       Electricity     Continuous current / Rated value / maximum     A     100       Continuous current / Rated value     A     100       Adjustable response value current / of the instantaneous short-circuit release / initial value     A     100       Main circuit     Operating voltage     V     690       Operating current     A     100       • with AC / at 50/60 Hz / Rated value     V     690       Operating current     A     100       • at 40 °C / Rated value     A     100       • at 65 °C / Rated value     A     100       • at 65 °C / Rated value     A     100       • at 65 °C / Rated value     A     100       • at 65 °C / Rated value     A     100       • at 65 °C / Rated value     A     100       • at 70 °C / Rated value     A     100       • at 70 °C / Rated value     A     100       Suitability     Suitability     Suitability       Suitability     Suitability     Suitability       Suitability     A     0.2       value     • for G-tripping / with 12t characteristic / initial value     A     1       • for G-tripping / with 12t characteristic / Full-scale     A     1       value     • for G-trippin			IVI
• maximum       W       13.5         Electricity       A       100         Continuous current / Rated value       A       100         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Memory Continuous current / Rated value       V       690         Operating voltage       •       •         • with AC / at 50/60 Hz / Rated value       V       690         Operating current       -       -         • at 40 °C / Rated value       A       100         • at 40 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         Auxiliary circuit       -       -         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       -       -         Suitability       -       -         Or G-tripping / with 12t characteristic / initial value       0.2 <td></td> <td></td> <td></td>			
Electricity       Continuous current / Rated value / maximum     A     100       Adjustable response value current / of the instantaneous short-circuit release / initial value     A     100       Main circuit     A     1.5       Operating voltage     V     690       • with AC / at 50/60 Hz / Rated value     V     690       Operating current     at 40 °C / Rated value     A     100       • at 40 °C / Rated value     A     100     at 65 °C / Rated value       • at 60 °C / Rated value     A     100       • at 65 °C / Rated value     A     100       • at 65 °C / Rated value     A     100       • at 65 °C / Rated value     A     100       • at 65 °C / Rated value     A     100       • at 67 °C / Rated value     A     100       • at 67 °C / Rated value     A     100       • at 67 °C / Rated value     A     100       • at 70 °C / Rated value     A     100       • Di °C Contacts / for auxiliary contacts     0     1       Number of NC contacts / for auxiliary contacts     0       Suitability     Sustability     Sustability       Suitability     Sustability     A     0.2       • for G-tripping / with 12t characteristic / Initial value     A     1    <			
Continuous current / Rated value / maximum       A       100         Continuous current / Rated value       A       100         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       Operating voltage       •       690         • with AC / at 50/60 Hz / Rated value       V       690         Operating current       •       100         • at 40 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • Suitability       Suitability for use       system protection	• maximum	W	13.5
Continuous current / Rated value       A       100         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       Coperating voltage       Image: Comparison of the comp	Electricity		
Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       Operating voltage       V       690         Operating current       V       690         • at 40 °C / Rated value       V       690         • at 40 °C / Rated value       A       100         • at 50 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • Auxiliary circuit       V       O         Number of NC contacts / for auxiliary contacts       0       O         Suitability       Suitability for use       system protection         Adjustable parameters       A       0.2         Adjustable response value current       A       1	Continuous current / Rated value / maximum	A	100
Instantaneous short-circuit release / initial value          Main Circuit         Operating voltage       V       690         • with AC / at 50/60 Hz / Rated value       V       690         Operating current	Continuous current / Rated value	А	100
Main circuit         Operating voltage       V       690         Operating current       -       -         • at 40 °C / Rated value       A       100         • at 50 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • Auxiliary circuit		А	1.5
Operating voltage       v       690         Operating current       A       100         • at 40 °C / Rated value       A       100         • at 40 °C / Rated value       A       100         • at 50 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         // Auxiliary circuit       A       100         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       system protection         Adjustable parameters       Adjustable parameters         Adjustable response value current       • for G-tripping / with 12t characteristic / initial value       0.2         • for G-tripping / with 12t characteristic / Full-scale       A       1         • value       • for G-tripping / with sta	instantaneous short-circuit release / initial value		
• with AC / at 50/60 Hz / Rated value       V       690         Operating current       -       -         • at 40 °C / Rated value       A       100         • at 50 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • Atjustalizy circuit       0       0         Number of NC contacts / for auxiliary contacts       0         Suitability       5       0         Suitability for use       system protection         Adjustable parameters       0       2         Adjustable response value current       6 or G-tripping / with 12t characteristic / initial value       1         • for G-tripping / with 12t characteristic / Full-scale       1       2         • for G-tripping / with standard characteristic /	Main circuit		
Operating current       Image: Constraint of the constraint of	Operating voltage		
• at 40 °C / Rated value       A       100         • at 50 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         Auxiliary circuit       A       100         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       Suitability for use       system protection         Adjustable parameters       A       0.2         Adjustable response value current       A       0.2         • for G-tripping / with 12t characteristic / initial value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / A       0.2       0.2         • initial value       • for G-tripping / with standard characteristic / A       1	<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690
• at 50 °C / Rated value       A       100         • at 60 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         Auxiliary circuit       A       100         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       Suitability for use         Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • for G-tripping / with 12t characteristic / initial value       A       0.2         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / A       0.2       1         • for G-tripping / with standard characteristic / A       0.2       1	Operating current		
• at 60 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 65 °C / Rated value       A       100         • at 70 °C / Rated value       A       100         Auxiliary circuit       A       100         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       Suitability         Suitability       Suitability for use         Adjustable parameters       system protection         Adjustable response value current       0.2         • for G-tripping / with 12t characteristic / initial value       A       1         • for G-tripping / with standard characteristic / A       0.2         • for G-tripping / with standard characteristic / A       0.2	• at 40 °C / Rated value	А	100
e at 65 °C / Rated value         A         100           • at 65 °C / Rated value         A         100           • at 70 °C / Rated value         A         100           Auxiliary circuit         A         100           Number of NC contacts / for auxiliary contacts         0           Number of NO contacts / for auxiliary contacts         0           Suitability         Suitability           Suitability for use         system protection           Adjustable parameters         Adjustable response value current           • for G-tripping / with 12t characteristic / initial value         A         1           • for G-tripping / with standard characteristic / Full-scale value         A         1           • for G-tripping / with standard characteristic / Full-scale value         A         0.2           • for G-tripping / with standard characteristic / Full-scale value         A         1	• at 50 °C / Rated value	А	100
• at 70 °C / Rated value       A       100         Auxiliary circuit       0         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       0         Suitability       system protection         Adjustable parameters       0.2         Adjustable response value current       0.2         • for G-tripping / with 12t characteristic / initial value       A       1         • for G-tripping / with standard characteristic / A       0.2         • for G-tripping / with standard characteristic / A       0.2         • for G-tripping / with standard characteristic / A       1	● at 60 °C / Rated value	А	100
Auxiliary circuit       0         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       0         Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • for G-tripping / with l2t characteristic / initial value       A       0.2         • for G-tripping / with l2t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / A       0.2       1	● at 65 °C / Rated value	А	100
Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       0         Suitability       system protection         Adjustable parameters       system protection         Adjustable response value current       0.2         • for G-tripping / with 12t characteristic / initial value       0         • for G-tripping / with 12t characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / A       0.2	● at 70 °C / Rated value	А	100
Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       0         Suitability       system protection         Adjustable parameters       system protection         Adjustable response value current       0.2         • for G-tripping / with 12t characteristic / initial value       0         • for G-tripping / with 12t characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / A       0.2	Auxiliary circuit		
Suitability       System protection         Adjustable parameters       System protection         Adjustable response value current       0.2         • for G-tripping / with l2t characteristic / initial value       A       0.2         • for G-tripping / with l2t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.2         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.2         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / A       0.2       1			0
Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • for G-tripping / with 12t characteristic / initial value       A       0.2         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.2         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.2         • for G-tripping / with standard characteristic / A       1       0.2	Number of NO contacts / for auxiliary contacts	-	0
Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • for G-tripping / with 12t characteristic / initial value       A       0.2         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.2         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.2         • for G-tripping / with standard characteristic / A       1       0.2	Suitability		
Adjustable response value current       A       0.2         • for G-tripping / with l2t characteristic / initial value       A       0.2         • for G-tripping / with l2t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.2         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / initial value       A       0.2         • for G-tripping / with standard characteristic / initial value       A       0.2			system protection
Adjustable response value current       A       0.2         • for G-tripping / with l2t characteristic / initial value       A       0.2         • for G-tripping / with l2t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.2         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / initial value       A       0.2         • for G-tripping / with standard characteristic / initial value       A       0.2	Adjustable parameters		
<ul> <li>for G-tripping / with 12t characteristic / initial value</li> <li>for G-tripping / with 12t characteristic / Full-scale value</li> <li>for G-tripping / with standard characteristic / A</li> </ul>			
valueA1• for G-tripping / with 12t characteristic / Full-scale valueA1• for G-tripping / with standard characteristic / initial valueA0.2• for G-tripping / with standard characteristic / initial valueA1		А	0.2
value • for G-tripping / with standard characteristic / A 0.2 • for G-tripping / with standard characteristic / A 1			
<ul> <li>for G-tripping / with standard characteristic / initial value</li> <li>for G-tripping / with standard characteristic / A</li> <li>1</li> </ul>	<ul> <li>for G-tripping / with I2t characteristic / Full-scale</li> </ul>	А	1
<ul> <li>initial value</li> <li>for G-tripping / with standard characteristic / A 1</li> </ul>	value		
		A	0.2
		А	1

<ul> <li>of I-trip / Full-scale value</li> </ul>	А	12
<ul> <li>of the short-time delayed short-circuit release / initial value</li> </ul>	A	0.6
<ul> <li>of the short-time delayed short-circuit release / Full-scale value</li> </ul>	A	10
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	A	0.6
<ul> <li>of S-trip / with standard characteristic / Full- scale value</li> </ul>	A	10
Adjustable delay time	_	
<ul> <li>for G-tripping / with I2t characteristic / initial value</li> </ul>	S	0.05
<ul> <li>for G-tripping / with I2t characteristic / Full-scale value</li> </ul>	S	0.8
<ul> <li>of S-trip / with I2t characteristic / initial value</li> </ul>	s	0.05
<ul> <li>of S-trip / with I2t characteristic / Full-scale value</li> </ul>	S	0.5
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	S	0.05
<ul> <li>of S-trip / with standard characteristic / Full- scale value</li> </ul>	S	0.5
Adjustable response value current / of the current-	А	0.4
dependent overload release / initial value		
Product details		
Product component		
Trip indicator		No
• display		Yes
• undervoltage release		No
Product property		
<ul> <li>of the circuit breaker with tripping unit / Tripping characteristic adjustable</li> </ul>		Yes
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof</li> </ul>		No
Product expansion / optional / motor drive		Yes
Product function		
Product function		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
communication function		Yes
Phase failure detection		No

other measurement function

Accessories

Yes

Manufacturer article number / of the supplied basic switch

Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	55
• at 500 V / Rated value	kA	36
• at 690 V / Rated value	kA	2
Maximum short-circuit current breaking capacity (Icu)	-	
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	55
• at 500 V / Rated value	kA	36
• at 690 V / Rated value	kA	2
Short-circuit current making capacity (Icm)	-	
• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 440 V / Rated value	kA	121
• at 500 V / Rated value	kA	79
• at 690 V / Rated value	kA	3

Connections	
Arrangement of electrical connectors / for main	Front terminal
current circuit	
Type of connectable conductor cross-section	
<ul> <li>of the round conductor terminal / stranded</li> </ul>	1 x (6-120 mm²)
Type of electrical connection / for main current circuit	Box terminal

Mechanical Design				
Height	mm	181		
Width	mm	140		
Depth	mm	107		
Mounting type		fixed mounting		
Environmental conditions				
Ambient temperature				
<ul> <li>during operation / minimum</li> </ul>	°C	-25		
<ul> <li>during operation / maximum</li> </ul>	°C	70		

<ul> <li>during storage / minimum</li> </ul>	°C	-40
<ul> <li>during storage / maximum</li> </ul>	°C	80

Certificates

Equipment marking

<ul><li>acc. to DIN</li><li>acc. to DIN</li></ul>				Q Q		
General Prod	luct Approval		EM	С	Declaration of Conformity	Shipping Approval
	VDE	EHC		other	EG-Konf.	ĴÅ DNV DNV
Shipping Approval	other					
	other					



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Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA20105KQ460AA0

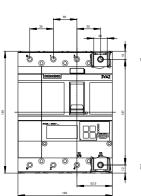
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20105KQ460AA0/all

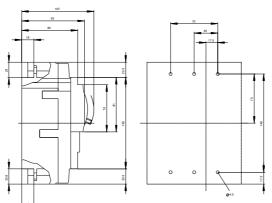
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA20105KQ460AA0

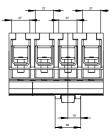
CAx-Online-Generator http://www.siemens.com/cax

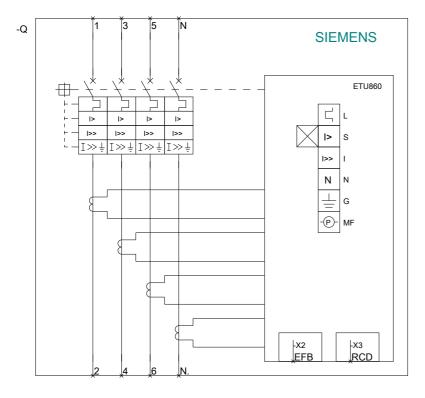
## Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









last modified:

11.03.2015